Index of Volume 20

Subject Index

Artificial Intelligence: Angehrn, Albert A., 6:17–28; Widman, Lawrence E., 2:48–66.

Book Reviews: Lev, Benjamin, 1:136-146; 2:81-89; 3: 95-105; 4:168-183; 5:81-89; 6:110–115.

Computers — Microcomputers: Macomber, James H., 3: 49-59; *System Design and Operation:* Adams, Dennis A., 3:88-98; Angehrn, Albert A., 6:17-28; Blais, Jean-Yves, 1:26-42; Cleaves, Gerard W., 6:83–87; Widman, Lawrence E., 2:48-66.

Decision Analysis — Applications: Davis, Samuel G., 5: 31-42; El Sherif, Hisham, 1:97-114; Eom, Hyun B., 3:65-79; Feinstein, Charles D., 3:80-87; Inman, R. Anthony, 2:30-37; Kekre, Sunder, 5:1-13; Kimes, Sheryl E., 2:12-20; Mehra, Satish, 2:38-41; *Systems:* Angehrn, Albert A., 6:17-28; El Sherif, Hisham, 1: 97-114; Kimbrough, Steven O., 6:5-16; McGoff, Chris, 6:39–52; Schmitz, John D., 6:29-38; Simard, Albert J., 6:53–66; Suilivan, Gerald, 1:43-64; Trippi, Robert R., 5:50-60.

Environment-Pollution: Harrald, John R., 5:14-30.

Facilities/Equipment Planning — Location: Carson, Yolanda M., 5:43-49.

Financial Institutions — Markets: Davis, Samuel G., 5: 31-42.

Games/Group Decisions: Brams, Steven J., 5:67-79; Potthoff, Richard F., 5:79-80; *Gambling:* Hausch, Donald B., 3:41-48.

Government: El Sherif, Hisham, 1:97-114; *Agencies:* Simard, Albert J., 6:53–66; *Services — Coast Guard:* Kimbrough, Steven O., 6:5-16.

Health Care — Ambulance Service: Carson, Yolanda M., 5:43-49.

Industries — Agriculture/Food: Kekre, Sunder, 5:1-13; Love, Robert R., Jr., 2:21-29; *Electric/Electronic:* Cohen, Morris, 1:65-82; Dembo, Ron S., 1:115-135; Gensch, Dennis H., 1:6-25; Sullivan, Gerald, 1:43-64; *Hotel/Motel:* Kimes, Sheryl E., 2:12-20; *Petroleum/Natural Gas:* Bammi, Deepak, 3:1-13; Buchanan, John E., 4:48-60; Creegan, Joseph B., 4:28-42; Harrald, John R., 5:14-30; *Real Estate:* Trippi, Robert R., 5:50-60; *Retail:* Schmitz, John D., 6:29-38; *Transportation Equipment:* Plenert, Gerhard, 3:14-23.

Information Systems: Alpar, Paul, 2:2-11.

Inventory/Production: Inman, R. Anthony, 2:30-37; *Applications:* Cohen, Morris, 1:65-82; *Policies:* Melcher, Arlyn, 3:24-40.

Marketing: Spencer, Thomas, III, 1:83-96; *Competition:* Gensch, Dennis, H. 1:6-25.

Microcomputers: Love, Robert R., Jr., 2:21-29.

Networks/Graphs: Bertsekas, Dimitri P., 4:133-149; *Applications:* Glover, Fred, 4:7-27; *Flow Algorithms:* Dembo, Ron S., 1:115-135.

Obituaries: Glover, Fred, 4:3-4; Hirshfeld, David S., 4: 5-6.

Organizational Studies — Decision Making: McGoff, Chris, 6:39–52; *Design:* Melcher, Arlyn, 3:24-40; *Manpower Planning:* Love, Robert R., Jr., 2:21-29.

Production/Scheduling: Cleaves, Gerard W., 6:83–87; *Materials Handling:* Plenert, Gerhard, 3:14-23.

Professional — Comments On: Gass, Saul I., 3:60-64; Geisler, Eliezer, 6:99–109; Greenberg, Harvey J., 6: 88–93; Hirshfeld, David S., 4:158-165; Lilien, Gary L., 6:94–98; Murphy, Frederic H., 4:1–2; 6:67–68; Thomas, Michael E., 6:69–74; von Benda, Heike, 6: 75–82; *History:* Bodington, C. E., 4:117-127; Orchard-Hays, William, 4:61-73; *MS/OR Education:* Mehra, Satish, 2:38-41; Vazsonyi, Andrew, 2:77-80; Weber, Glenn, 2:72-76; *MS/OR Implementation:* Alpar, Paul, 2:2-11; Gass, Saul I., 2:67-71; Mehring, Joyce S., 4:95-104.

Programming — Integer: Brams, Steve J., 5:67-79; Potthoff, Richard F., 5:79-80; *Integer Algorithms Heuristics:* Glover, Fred, 4:74-94; *Integer Applications:* Buchanan, John E., 4:48-60; Camm, Jeffrey D., 5:61-66; Creegan, Joseph B., 4:28-42; *Integer Nonlinear:* Dembo, Ron S., 1:115-135; *Linear:* Bodington, C. E., 4:117-127; Dantzig, George B., 4:43-47; Gass, Saul I., 4:128-132; Marsten, Roy, 4:105-116; Mehring, Joyce S., 4:95-104; Orchard-Hays, William, 4:61-73; Rubin, David S., 4:150-157; *Mathematical:* Bertsekas, Dimitri P., 4:133-149; Hirshfeld, David S., 4:158-165; *Mixed Integer:* Spencer, Thomas, III, 1:83-96.

Recreation/Sports: Hausch, Donald B., 3:41-48.

Research and Development: Cleaves, Gerard W., 6:83–87; Geisler, Eliezer, 6:99–109; Greenberg, Harvey J., 6:88–93; Lilien, Gary, L., 6:94–98; Murphy, Frederic H., 6:67–68; Thomas, Michael E., 6:69–74; von Benda, Heike, 6:75–82.

Risk Analysis: Harrald, John R., 5:14-30.

Simulation: Widman, Lawrence E., 2:48-66; *Applications:* Bammi, Deepak, 3:1-13; *Random Number Generation:* Macomber, James H., 3:49-59.

Statistics: Barnett, Arnold, 2:42-47; *Data Analysis:* Davis, Samuel G., 5:31-42; *Regression:* Kimes, Sheryl E., 2:12-20.

Transportation — Mass Transit: Blais, Jean-Yves, 1:26-42; *Rail:* Bammi, Deepak, 3:1-13; Kekre, Sunder, 5:

Copyright © 1990, The Institute of Management Sciences

0091-2102/90/2006/0116$01.25

Index of Volume 20

Subject Index

Artificial Intelligence: Angehrn, Albert A., 6:17–28; Widman, Lawrence E., 2:48–66.

Book Reviews: Lev, Benjamin, 1:136-146; 2:81-89; 3: 95-105; 4:168-183; 5:81-89; 6:110–115.

Computers — Microcomputers: Macomber, James H., 3: 49-59; *System Design and Operation:* Adams, Dennis A., 3:88-98; Angehrn, Albert A., 6:17-28; Blais, Jean-Yves, 1:26-42; Cleaves, Gerard W., 6:83–87; Widman, Lawrence E., 2:48-66.

Decision Analysis — Applications: Davis, Samuel G., 5: 31-42; El Sherif, Hisham, 1:97-114; Eom, Hyun B., 3:65-79; Feinstein, Charles D., 3:80-87; Inman, R. Anthony, 2:30-37; Kekre, Sunder, 5:1-13; Kimes, Sheryl E., 2:12-20; Mehra, Satish, 2:38-41; *Systems:* Angehrn, Albert A., 6:17-28; El Sherif, Hisham, 1: 97-114; Kimbrough, Steven O., 6:5-16; McGoff, Chris, 6:39–52; Schmitz, John D., 6:29-38; Simard, Albert J., 6:53–66; Suilivan, Gerald, 1:43-64; Trippi, Robert R., 5:50-60.

Environment-Pollution: Harrald, John R., 5:14-30.

Facilities/Equipment Planning — Location: Carson, Yolanda M., 5:43-49.

Financial Institutions — Markets: Davis, Samuel G., 5: 31-42.

Games/Group Decisions: Brams, Steven J., 5:67-79; Potthoff, Richard F., 5:79-80; *Gambling:* Hausch, Donald B., 3:41-48.

Government: El Sherif, Hisham, 1:97-114; *Agencies:* Simard, Albert J., 6:53–66; *Services — Coast Guard:* Kimbrough, Steven O., 6:5-16.

Health Care — Ambulance Service: Carson, Yolanda M., 5:43-49.

Industries — Agriculture/Food: Kekre, Sunder, 5:1-13; Love, Robert R., Jr., 2:21-29; *Electric/Electronic:* Cohen, Morris, 1:65-82; Dembo, Ron S., 1:115-135; Gensch, Dennis H., 1:6-25; Sullivan, Gerald, 1:43-64; *Hotel/Motel:* Kimes, Sheryl E., 2:12-20; *Petroleum/Natural Gas:* Bammi, Deepak, 3:1-13; Buchanan, John E., 4:48-60; Creegan, Joseph B., 4:28-42; Harrald, John R., 5:14-30; *Real Estate:* Trippi, Robert R., 5:50-60; *Retail:* Schmitz, John D., 6:29-38; *Transportation Equipment:* Plenert, Gerhard, 3:14-23.

Information Systems: Alpar, Paul, 2:2-11.

Inventory/Production: Inman, R. Anthony, 2:30-37; *Applications:* Cohen, Morris, 1:65-82; *Policies:* Melcher, Arlyn, 3:24-40.

Marketing: Spencer, Thomas, III, 1:83-96; *Competition:* Gensch, Dennis, H. 1:6-25.

Microcomputers: Love, Robert R., Jr., 2:21-29.

Networks/Graphs: Bertsekas, Dimitri P., 4:133-149; *Applications:* Glover, Fred, 4:7-27; *Flow Algorithms:* Dembo, Ron S., 1:115-135.

Obituaries: Glover, Fred, 4:3-4; Hirshfeld, David S., 4: 5-6.

Organizational Studies — Decision Making: McGoff, Chris, 6:39–52; *Design:* Melcher, Arlyn, 3:24-40; *Manpower Planning:* Love, Robert R., Jr., 2:21-29.

Production/Scheduling: Cleaves, Gerard W., 6:83–87; *Materials Handling:* Plenert, Gerhard, 3:14-23.

Professional — Comments On: Gass, Saul I., 3:60-64; Geisler, Eliezer, 6:99–109; Greenberg, Harvey J., 6: 88–93; Hirshfeld, David S., 4:158-165; Lilien, Gary L., 6:94–98; Murphy, Frederic H., 4:1–2; 6:67–68; Thomas, Michael E., 6:69–74; von Benda, Heike, 6: 75–82; *History:* Bodington, C. E., 4:117-127; Orchard-Hays, William, 4:61-73; *MS/OR Education:* Mehra, Satish, 2:38-41; Vazsonyi, Andrew, 2:77-80; Weber, Glenn, 2:72-76; *MS/OR Implementation:* Alpar, Paul, 2:2-11; Gass, Saul I., 2:67-71; Mehring, Joyce S., 4:95-104.

Programming — Integer: Brams, Steve J., 5:67-79; Potthoff, Richard F., 5:79-80; *Integer Algorithms Heuristics:* Glover, Fred, 4:74-94; *Integer Applications:* Buchanan, John E., 4:48-60; Camm, Jeffrey D., 5:61-66; Creegan, Joseph B., 4:28-42; *Integer Nonlinear:* Dembo, Ron S., 1:115-135; *Linear:* Bodington, C. E., 4:117-127; Dantzig, George B., 4:43-47; Gass, Saul I., 4:128-132; Marsten, Roy, 4:105-116; Mehring, Joyce S., 4:95-104; Orchard-Hays, William, 4:61-73; Rubin, David S., 4:150-157; *Mathematical:* Bertsekas, Dimitri P., 4:133-149; Hirshfeld, David S., 4:158-165; *Mixed Integer:* Spencer, Thomas, III, 1:83-96.

Recreation/Sports: Hausch, Donald B., 3:41-48.

Research and Development: Cleaves, Gerard W., 6:83–87; Geisler, Eliezer, 6:99–109; Greenberg, Harvey J., 6:88–93; Lilien, Gary, L., 6:94–98; Murphy, Frederic H., 6:67–68; Thomas, Michael E., 6:69–74; von Benda, Heike, 6:75–82.

Risk Analysis: Harrald, John R., 5:14-30.

Simulation: Widman, Lawrence E., 2:48-66; *Applications:* Bammi, Deepak, 3:1-13; *Random Number Generation:* Macomber, James H., 3:49-59.

Statistics: Barnett, Arnold, 2:42-47; *Data Analysis:* Davis, Samuel G., 5:31-42; *Regression:* Kimes, Sheryl E., 2:12-20.

Transportation — Mass Transit: Blais, Jean-Yves, 1:26-42; *Rail:* Bammi, Deepak, 3:1-13; Kekre, Sunder, 5:

Copyright © 1990, The Institute of Management Sciences

0091-2102/90/2006/0116$01.25

1-13.
Tutorial: Marsten, Roy, 4:105-116; Rubin, David S., 4: 150-157.
Utility/Preferences — Multiattribute: Gensch, Dennis H., 1:6-25.

Author Index

Acar, William. See *Melcher, Arlyn.*
Adams, Dennis A., Parallel processing implications for management scientists, 3:88-98.
Alpar, Paul and Reeves, Sharon, Predictors of MS/OR application in small businesses, 2:2-11.
Angehrn, Albert A. and Lüthi, Hans-Jakob, Intelligent decision support systems: A visual interactive approach, 6:17-28.
Armstrong, Gordon D. See *Schmitz, John D.*
Aversa, Nicola. See *Gensch, Dennis H.*
Baker, T. E. See *Bodington, C. E.*
Baker, Thomas E. See *Cleaves, Gerard W.*
Bammi, Deepak, Northern Border Pipeline logistics simulation, 3:1-13.
Barnett, Arnold and Tress, Harvey, Misapplications reviews: Rain men, 2:42-47.
Batta, Rajan. See *Carson, Yolanda M.*
Bertsekas, Dimitri P., The auction algorithm for assignment and other network flow problems: A tutorial, 4:133-149.
Bhargava, Hemant K. See *Kimbrough, Steven O.*
Bieber, Michael P. See *Kimbrough, Steven O.*
Blais, Jean-Yves; Lamont, Jacques; and Rousseau, Jean-Marc, The HASTUS vehicle and manpower scheduling system at the Société de transport de la Communauté urbaine de Montréal, 1:26-42.
Bodington, C. E. and Baker, T. E., A history of mathematical programming in the petroleum industry, 4: 117-127.
Brams, Steven J., Constrained approval voting: A voting system to elect a governing board, 5:67-79
Brigandi, Anthony J. See *Spencer, Thomas, III.*
Buchanan, John E; Garven, Susan C.; Genis, Orhan; Shapiro, Jeremy F.; Singhal, Vijay; Thomas, Jerry M.; and Torpis, Sevket, A multi-refinery, multi-period modeling system for the Turkish petroleum refining industry, 4:48-60.
Camm, Jeffrey D.; Raturi, Amitabh S.; and Tsubakitani, Shigeru, Cutting big M down to size, 5:61-66.
Carson, Yolanda M. and Batta, Rajan, Locating an ambulance on the Amherst Campus of the State University of New York at Buffalo, 5:43-49.
Chiarri, Angel. See *Dembo, Ron S.*
Cleaves, Gerard W. and Baker, Thomas E., Chesapeake R&D sponsor groups, 6:83–87.
Cohen, Morris; Kamesam, Pasumarti V.; Kleindorfer, Paul; Lee, Hau; and Tekerian, Armen, Optimizer: IBM's multi-echelon inventory system for managing service logistics, 1:65-82.
Creegan, Joseph B. and Monforte, Frank A., Southern California Gas Company uses special ordered sets to model regulatory guidelines, 4:28-42.
Dantzig, George B., The diet problem, 4:43-47.
Dargon, Dennis R. See *Spencer, Thomas, III.*
Davis, Samuel G. and Ord, J. Keith, Improving and measuring the performance of a securities industry surveillance system, 5:31-42.
Dembo, Ron S.; Chiarri, Angel; Gomez Martin, Jesus; and Paradinas, Luis, Managing Hidroeléctrica Españolas hydroelectric power system, 1:115-135.
DuMont, Paul. See *Melcher, Arlyn.*
Eenigenburg, James E. See *Simard, Albert J.*
El Sherif, Hisham, Managing institutionalization of strategic decision support for the Egyptian cabinet, 1:97-114.
Eom, Hyun B. and Lee, Sang M., A survey of decision support system applications (1971-April 1988), 3: 65-79.
Feinstein, Charles D., Deciding whether to test student athletes for drug use, 3:80-87.
Fitzsimmons, James A. See *Kimes, Sheryl E.*
Fordyce, Kenneth. See *Sullivan, Gerald.*
Furino, Antonio. See *Geisler, Eliezer.*
Garven, Susan C. See *Buchanan, John E.*
Gass, Saul I., Model world: Danger, beware the user as modeler, 3:60-64; Model world: Have model, will travel, 2:67-71; Model world: In the beginning there was linear programming, 4:128-132.
Genis, Orhan. See *Buchanan, John E.*
Gensch, Dennis H.; Aversa, Nicola; and Moore, Steven P., A choice-modeling market information system that enabled ABB Electric to expand its market share, 1:6-25.
Geisler, Eliezer; Furino, Antonio; and Kiresuk, Thomas J., Factors in the success or failure of industry-university cooperative research centers 6:99–109.
Glover, Fred, In memory of Darwin Klingman: A tribute to an esteemed collegue and friend, 4:3-4; Tabu search: A tutorial, 4:74-94.
Glover, Fred; Klingman, Darwin; and Phillips, Nancy, Netform modeling and applications, 4:7-27.
Gomez Martin, Jesus. See *Dembo, Ron S.*
Graves, Stephen C., Franz Edelman Award for Management Science Achievement, 1:2-4.
Gray, Paul, Introduction to DSS prize papers, 6:1-4.
Greenberg, Harvey J., An industrial consortium to sponsor the development of an intelligent mathematical programming system, 6:88–93.
Gutterman, Milton M. See *Mehring, Joyce S.*
Harrald, John R.; Marcus, Henry S.; and Wallace, William A., The EXXON Valdez: An assessment of crisis prevention and management systems, 5:14-30.
Hausch, Donald B. and Ziemba, William T., Locks at the racetrack, 3:41-48.
Hirshfeld, David S., In memory of William Orchard-Hays 4:5-6; Some thoughts on math programming practice in the '90s, 4:158-165.
Hoey, James M. See *Love, Robert R., Jr.*

Hunt, Ann. See *McGoff, Chris.*
Inman, R. Anthony and Mehra, Satish, The transferability of just-in-time concepts to American small businesses, 2:30-37.
Kamesam, Pasumarti V. See *Cohen, Morris.*
Kekre, Sunder; Nandakumar, Purushottaman; Powell, Thomas A.; and Rajagopalan, Sampath, A logistics analysis at Heinz, 5:1-13.
Khouja, Moutaz. See *Melcher, Arlyn.*
Kimbrough, Steven O.; Pritchett, Clark W.; Bieber, Michael P.; and Bhargava, Hemant K., The Coast Guard's KSS project, 6:5-16.
Kimes, Sheryl E. and Fitzsimmons, James A., Selecting profitable hotel sites at La Quinta Motor Inns, 2:12-20.
Kiresuk, Thomas J. See *Geisler, Eliezer.*
Kleindorfer, Paul. See *Cohen, Morris.*
Klingman, Darwin. See *Glover, Fred.*
Lamont, jacques. See *Blais, Jean-Yves.*
Lee, Hau. See *Cohen, Morris.*
Lee, Sang M. See *Eom, Hyun B.*
Lev, Benjamin, Book reviews, 1:136-146; 2:81-89; 3:95-105; 4:168-183; 5:81-89; 6:110–115.
Lilien, Gary L., Industry-university cooperation at Penn State's Institute for the Study of Business Markets, 6:94–98.
Little, John D. C. See *Schmitz, John D.*
Loparo, Kenneth A. See *Widman, Lawrence E.*
Love, Robert R., Jr. and Hoey, James M., Management science improves fast-food operations, 2:21-29.
Lustig, Irvin. See *Marsten, Roy.*
Lüthi, Hans-Jakob. See *Angehrn, Albert A.*
Macomber, James H. and White, Charles S., An *n*-dimensional uniform random number generator suitable for IBM-compatible microcomputers, 3:49-59.
Marcus, Henry S. See *Harrald, John R.*
Marsten, Roy; Subramanian, Radhika; Saltzman, Matthew; Lustig, Irvin; and Shanno, David, Interior point methods for linear programming: Just call Newton, Lagrange, and Fiacco and McCormick! 4:105-116.
McGoff, Chris; Hunt, Ann; Vogel, Doug; and Nunamaker, Jay, IBM's experiences with GroupSystems, 6:39–52.
Mehra, Satish, Applying MS/OR techniques to small businesses, 2:38-41; Introduction to special section: MS/OR in small business, 2:1.
Mehra, Satish. See *Inman, R. Anthony.*
Mehring, Joyce S. and Gutterman, Milton M., Supply and distribution planning support for Amoco (U.K.) Limited, 4:95-104.
Melcher, Arlyn; Acar, William; DuMont, Paul; and Khouja, Moutaz, Standard-maintaining and continuous-improvement systems: Experiences and comparisons, 3:24-40.
Monforte, Frank A. See *Creegan, Joseph B.*
Moore, Steven P. See *Gensch, Dennis H.*
Murphy, Frederic H., Franz Edelman Award for Management Science Achievement, 1:4-5; Introduction to the special issue on the practice of mathematical programming, 4:1-2; Special section on research consortia, 6:67–68.
Nandakumar, Purushottaman. See *Kekre, Sunder.*
Nunamaker, Jay. See *McGoff, Chris.*
Orchard-Hays, William, History of the development of LP solvers, 4:61-73.
Ord, J. Keith. See *Davis, Samuel G.*
Paradinas, Luis. See *Dembo, Ron S.*
Phillips, Nancy. See *Glover, Fred.*
Plenert, Gerhard, Developing a production system in Mexico, 3:14-23.
Potthoff, Richard F., Comment: Use of integer programming for constrained approval of voting, 5:79-80.
Powell, Thomas A. See *Kekre, Sunder.*
Pritchett, Clark W. See *Kimbrough, Steven O.*
Radermacher, F. J. See *von Benda, Heike.*
Rajagopalan, Sampath. See *Kekre, Sunder.*
Raturi, Amitabh S. See *Camm, Jeffrey D.*
Reeves, Sharon. See *Alpar, Paul.*
Rousseau, Jean-Marc. See *Blais, Jean-Yves.*
Rubin, David S. and Wagner, Harvey M., Shadow prices: Tips and traps for managers and instructors, 4:150-157.
Saltzman, Matthew. See *Marsten, Roy.*
Schmitz, John D.; Armstrong, Gordon D.; and Little, John, D. C., CoverStory—Automated news finding in marketing, 6:29-38.
Shanno, David. See *Marsten, Roy.*
Shapiro, Jeremy F. See *Buchanan, John E.*
Sheehan, Michael J. See *Spencer, Thomas, III.*
Simard, Albert J. and Eenigenburg, James E., An executive information system to support wildfire disaster declarations, 6:53–66.
Singhal, Vijay. See *Buchanan, John E.*
Spencer, Thomas, III; Brigandi, Anthony J.; Dargon, Dennis R.; and Sheehan, Michael J., AT&T's telemarketing site selection system offers customer support, 1:83-96.
Subramanian, Radhika. See *Marsten, Roy.*
Sullivan, Gerald and Fordyce, Kenneth, IBM Burlington's logistics management system, 1:43-64.
Tekerian, Armen. See *Cohen, Morris.*
Thomas, Elden D., Franz Edelman Award for Management Science Achievement, 1:1-2.
Thomas, Jerry M. See *Buchanan, John E.*
Thomas, Michael E., The Manufacturing Research Center at the Georgia Institute of Technology, 6:69–74.
Torpis, Sevket. See *Buchanan, John E.*
Tress, Harvey. See *Barnett, Arnold.*
Trippi, Robert R., Decision support and expert systems for real estate investment decisions: A review, 5:50-60.
Tsubakitani, Shigeru. See *Camm, Jeffrey D.*

Vazsonyi, Andrew, Note: Will the CEO ever know what MS/OR is? 2:77-80.
Vogel, Doug. See *McGoff, Chris.*
von Benda, Heike and Radermacher, F. J., The Research Institute for Application-Oriented Knowledge Processing (FAW): Planning and realizing a high-technology institute, 6:75–82.
Wagner, Harvey M. See *Rubin, David S.*
Wallace, William A. See *Harrald, John R.*
Weber, Glenn, Puzzle contests in MS/OR education, 2: 72-76.
White, Charles S. See *Macomber, James H.*
Widman, Lawrence E. and Loparo, Kenneth A., Artificial intelligence, simulation, and modeling, 2:48-66.
Ziemba, William T. See *Hausch, Donald B.*

Books Reviewed

Allio, Robert J. 1988, *The Practical Strategist, Business and Corporate Strategies in the 1990s,* 4:177-178, reviewed by B. R. Baliga.
Baird, Bruce F. 1989, *Managerial Decisions under Uncertainty,* 5:83-84, reviewed by David Chender Chou.
Balachandran, Sarojini 1987, *Decision Making — An Information Sourcebook,* 2:81-82, reviewed by Benjamin Lev.
Carrie, Allan 1988, *Simulation of Manufacturing Systems,* 3:104-105, reviewed by Enio E. Velazco.
Chacko, George 1986, *Robotics, Artificial Intelligence, Productivity: US Japan Concomitant Coalitions,* 4:170-172, reviewed by Wilbet E. Wilhelm.
Chapman, C. B.; Cooper, D. F.; Page, M. J. with contributions from J. B. Clark; M. A. M. Ezzmael; K. Hilton; C. Mar-Molinero; and S. C. Ward 1988, *Management for Engineers,* 5:87-88, reviewed by Holger Hinz.
Daduna, Joachim R. and Wren, Anthony, eds. 1988, *Computer-Aided Transit Scheduling: Proceedings of the Fourth International Workshop on Computer-Aided Scheduling of Public Transport,* 2:82-83, reviewed by Lawrence Bodin.
Das, T. K. 1986, *The Subjective Side of Strategy Making,* 2:83-84, reviewed by Allen C. Bluedorn.
De Keyser, Veronique; Qvale, Thoralf; Wilpert, Bernhard; and Ruiz Quintanilla, S., eds. 1988, *The Meaning of Work and Technological Options,* 1:140-141, reviewed by Nanette Fondas.
Denker, John S., ed. 1986, *Neural Networks for Computing, AIP Conference Proceedings,* 1:136-139, reviewed by Daniel S. Levine.
Dogramaci, Ali and Färe, Rolf, eds. 1988, *Applications of Modern Production Theory: Efficiency and Productivity,* 2:87-88, reviewed by Thomas R. Gulledge, Jr.
Estabrooks, Maurice F. 1989, *Programmed Capitalism,* 4:176-177, reviewed by Holger Hinz.
Ethier, Stewart N. and Kurtz, Thomas G. 1986, *Markov Processes: Characterization and Convergence,* 5: 86-87, reviewed by Ralph L. Disney.
Hage, Jerald, ed. 1988, *Futures of Organizations: Innovating to Adapt Strategy and Human Resources to Rapid Technological Change,* 1:141-143, reviewed by T. K. Das.
Harmon, Roy and Peterson, Leroy 1990, *Reinventing the Factory: Productivity Breakthroughs in Manufacturing Today,* 6:111–112, reviewed by Heungsoon Felix Lee.
Hayes, Mike and Tomes, Anne 1988, *Practical Operations Management,* 4:179-180, reviewed by Ruth A. Maurer.
Hayes, Robert H.; Wheelwright, Steven C.; and Clark, Kim B. 1988, *Dynamic Manufacturing,* 1:143–144, reviewed by Howard W. Oden.
Hoover, Stewart V. and Perry, Ronald F. 1989, *Simulation: A Problem-Solving Approach,* 6:112–113 reviewed by Layek Abdel-Malek.
Laudon, Kenneth C. and Laudon, Jane P. 1988, *Management Information Systems,* 4:168-169, reviewed by Mohammad Dadashzadeh.
Merkhofer, Miley 1986, *Decision Science and Social Risk Management,* 4:175-176, reviewed by Dennis J. Hanseman.
Minoux, Michel 1986, *Mathematical Programming: Theory and Algorithms,* 4:173-175, reviewed by Eric S. Theise.
Mole, R. H. 1989, *BASIC Graph and Network Algorithms,* 3:102-103, reviewed by Edward Minieka.
Mumford, Enid and MacDonald, W. Bruce 1989, *Xsel's Progress,* 6:114–115, reviewed by David Chender Chou.
Nahmias, Steven 1988, *Production and Operations Analysis,* 4:178-179, reviewed by David Simchi-Levi.
Nicholson, Michael 1989, *Formal Theories in International Relations,* 2:84-86, reviewed by Edward C. Rosenthal.
Niwa, Kiyoshi 1989, *Knowledge-Based Risk Management in Engineering: A Case Study in Human-Computer Cooperative Systems,* 4:181-182, reviewed by Ayodele O. Mobolurin.
Pervozvanskii, Anatolii A. and Gaitsgori, Vladimir G. 1988, *Theory of Suboptimal Decisions: Decomposition and Aggregation,* 5:85-86, reviewed by Eugene Veklerov.
Pirow, P. C.; Duffy, N. M.; and Ford, J. C., eds. 1988, *Information Systems in Practice and Theory,* 2:86-87, reviewed by Jeanne W. Ross.
Rand, Graham K., ed. 1988, *Operational Research '87,* 1:144-145, reviewed by Paul Gray.
Samson, Danny 1988, *Managerial Decision Analysis,* 6: 110–111, reviewed by Ha Jin Hwang.
Shogan, Andrew W. 1988, *Management Science,* 3: 103-104, reviewed by Narendra K. Rustagi.
Stevenson, William J. 1989, *Introduction to Management Science,* 5:81-83, reviewed by Ruth A. Maurer.
Tabucanon, Mario T. 1989, *Multiple Criteria Decision*

Making in Industry, 6:113–114, reviewed by Ha Jin Hwang.

Teodorović, Dušan 1988, *Airline Operations Research*, 3:100-102, reviewed by Helmut Richter.

Turban, Efraim 1988, *Decision Support and Expert Systems, Managerial Perspectives*, 4:172-173, reviewed by Mark G. Simkin and Fritz H. Grupe.

Young, Lawrence F. 1989, *Decision Support and Idea Processing Systems*, 3:99-100, reviewed by Jeanne W. Ross.

Walk, Manfred 1989, *Theory of Duality in Mathematical Programming*, 5:84-85, reviewed by Eric S. Theise.

Referees 1990

H. Apgar, Management Consulting and Research; Linda Applegate, Harvard University; Gordon Arbogast, US Military Academy; Sumer Aggarwal, University of Massachusetts; Stephen Balut, Institute for Defense Analysis; Jonathan F. Bard, University of Texas; Donald R. Barr, VRC Corporation; Daniel Bausch, Insight, Inc.; Colin Bell, University of Iowa; Michael Beltramo, Beltramo and Associates; Arnold Barnett, Massachusetts Institute of Technology; Dinesh Batra, Florida International University; Peter Bell, University of Western Ontario; Valerie Belton, University of Strathclyde; John M. Berry, Ball Systems Engineering; Dimitris Bertsimas, Massachusetts Institute of Technology; Dan Boger, Naval Postgraduate School; Jack Borsting, University of Southern California; James Bouchat, US Airforce Academy; Terry Bresnick, Decision Sciences Consortium, Inc.; Warren Briggs, Suffolk University; Michael Bronsini, Pennsylvania State University; Gerald Brown, Naval Postgraduate School; Pamela Brown, University of Delaware; Marion Bryson, Department of the Army; James Bui, Institute for Defense Analysis; Judson E. Byrn, United Airlines; Tamra Carpenter, Princeton University; Kevin Carr, National Institute of Standards and Technology; Yupo Chan, Airforce Institute of Technology; Yih-long Chang, Georgia Institute of Technology; P. Cherry, Vector Research; Mark Chipman, Department of the Navy; Richard L. Clarke, Clemson University; Thomas Curry, United States Airforce Academy; Larry Cornwall, Bradley University; William Darrow, Towson State University; Donald Davis, University of Mississippi; Samuel Davis, Pennsylvania State University; Wayne Davis, University of Illinois; Vasant Dhar, New York University; Anthony DiBenedetto, Temple University; Ali Dogramaci, Rutgers University; Donald Edwards, Baylor University; Erhan Erkut, University of Alberta; James R. Evans, University of Cincinnati; Norman Falk, New Mexico Engineering Research Institute; L. P. Fatti, University of the Witwatersrand; Richard Fernandez, Congressional Budget Office; Christopher A. Feuchter, AFSC; Howard Finkelberg, BBD&O; Warren Fisher, University of Mississippi; James Fitzsimmons, University of Texas; Louis Fried, SRI International; Richard Garvey, Jr., BBN Systems and Technologies Corporation; Saul Gass, University of Maryland; Donald Gaver, Naval Postgraduate School; Michel Gendreau, University of Montreal; Mark Gershon, Temple University; Sydell P. Gold, Department of the Airforce; Harvey Greenberg, University of Colorado; Timothy Greene, Virginia Polytechnic and State University; Willis Greer, Jr., University of Iowa; S. Grosskopf, Southern Illinois University; Thomas Gulledge, George Mason University; Chevy Gunter, Temple University; Genaro J. Gutierrez, University of Texas; Milton Gutterman, Amoco Oil Company; Robert W. Haessler, University of Michigan; Dwight Hageman, Metrica, Inc.; Yacov Haines, University of Virginia; Susan A. Hall, Massachusetts Institute of Technology; Patrick Harker, University of Pennsylvania; R. M. Harnett, Kansas State University; Adrian Harrell, University of South Carolina; Dean Hartley III, Martin Marietta Energy Systems; Jack Hayya, Pennsylvania State University; William Hendrik, Clemson University; Jon R. Hobbs, Wright State University; James Hodges, Rand Corporation; Don Hommertzheim, Wichita State University; Stanley Horowitz, Institute for Defense Analysis; Raymond Hubbard, Drake University; Reiner Huber, University of the Federal Army/Munich; Wayne P. Hughes, Naval Postgraduate School; Mark Isken, University of Michigan; Peter L. Jackson, Cornell University; John Johnson, University of Mississippi; Robert Johnson, Pennsylvania State University; Roland Kankey, Airforce Institute of Technology; James L. Karp, US Army; Miles Kennedy, Case Western Reserve University; Panagiotis Kouvelis, University of Texas; Lewis A. Litteral, University of Richmond; Tim Liang, Naval R&D Center; Matthew J. Liberatore, Villanova University; G. T. Lineberry, University of Kentucky; Graham Lord, Mathtech; Marilyn Maddox, Ford Motor Company; Patrice Marcotte, Royal Military Academy of St. Jean; Neil Marks, Miami University; K. T. Marshall Naval Postgraduate School; Wain Martin, Indiana University; J. J. Martin, Science Applications International Corp.; Robert Mason, Case Western Reserve University; William Maxwell, Cornell University; David Meinert, University of Mississippi; Mort Metersky, NADC; Paul, Milch, Naval Postgraduate School; Thomas P. Moore, Naval Postgraduate School; Richard Morey, University of Cincinnati; C. Robert Morganthaler, Loyola College; Donald Morrison, UCLA; Charles Mylander, US Naval Academy; Amita Naganand, Claremont Graduate School; Robert Nydick, Villanova University; P. J. Parker, Naval Postgraduate School; Sam Parry, Naval Postgraduate School; Darrell Parker, Winthrop College; Fariborz Partovi, Drexel University; J. Wayne Patterson, Clemson University; Mark A. Peterson, Rand Corporation; Narayan Raman, University of Illinois; Steven Ray, National Institute of Standards and

Technology; Jeffery Ringuest, Boston College; Patrick Rivett, University of Mississippi; David Rogers, University of Cincinnati; Edward Rosenthal, Temple University; William Ruckle, Clemson University; Abdol Saleh, AT&T; Danny Samson, University of Melbourne; Brunilde Sanso, University of Montreal; Thomas R. Saving, Texas A&M; Norman Schneiderwind, Naval Postgraduate School; Kishore Sengupta, Naval Postgraduate School; William Shafer, Institute for Defense Analysis; Mark Shanley, University of Chicago; Douglas Shier, College of William and Mary; Joseph Silverman, Department of the Navy; Pavan Singh, Case Western Reserve University; N. D. Singpurwalla, George Washington University; Vicki Smith-Daniels, Arizona State University; M. G. Sovereign, Naval Postgraduate School; William Stewart, William and Mary; Edward A. Stohr, New York University; Frank Spital, Northwestern University; Bruce M. Stone, RRC, Inc.; Dale Stapler, National Institute of Standards and Technology; Daniel Thompson, University of Illinois; Theodore Thompson, Navy Personnel R&D Center; Devanath Tirupati, University of Texas; Robert Tripp, University of New Mexico; Rita Vachni, GTE Laboratories; Danielle Vanderpooten, Universite de Paris, Dauphine; Hercules Vladimirou, International Business Machines; Douglas Vogel, University of Arizona; Mark A. Vonderembse, University of Toledo; Warren Walker, Rand Corporation; joe H. Ward, University of Texas; J. T. Warner, Clemson University; Edward Wasil, American University; Steve Weber, National Institute of Standards and Technology; William Wei, Temple University; Yeh Wei, University of California; George Widmeyer, University of Southern California; Wayne Winston, Indiana University; Lisa L. Wood, Research Triangle Institute; David Wu, Lehigh University; Bayard Wynne, Indiana University; B. P. Yantis, Otterbein College; Elizabeth Young, Clemson University; Mark Youngren, US Army Concepts Analysis Agency; Fatemah Zahedi, University of Massachusetts; William Ziemba, University of British Columbia; and Paul Zipkin, Columbia University.

The University of British Columbia

HEAD

Department of Forest Resources Management

Applications and nominations are invited for the position of the Head of the Department of Forest Resources Management in the Faculty of Forestry at the University of British Columbia. The Department includes 15 faculty positions, 5 research associates and technicians, and a significant extramural research program. The Faculty offers B.Sc., B.S.F., M.A.Sc. and Ph.D. degrees, and supports collaborative teaching and research efforts with several other departments including Plant Science, Geography, Agricultural Economics, Economics and Commerce and Business Administration. Research and teaching facilities include a remote sensing/geographic information systems laboratory, a well-equipped microcomputer lab, an excellent main-frame computing centre, two research forests (the 9,000 hectare Alex Fraser Forest in the interior and the 5,000 hectare Malcolm Knapp Forest near the coast), a nursery and an excellent library.

The Head will play an important role in planning the Pacific Forest Sciences Centre to be constructed in 1992. The successful candidate will have an international record of excellence in research in the management sciences - natural, social or quantitative - associated with forestry, a demonstrated interest in the scientific problems arising in the practice of forestry broadly defined and the ability and motivation to develop an outstanding department.

Please direct inquiries, nominations and applications to: **Professor Clark S. Binkley, Dean, Faculty of Forestry, The University of British Columbia, 270 - 2357 Main Mall, Vancouver, B.C., CANADA V6T 1W5.**

Applications should contain a letter stating interests and qualifications; the names, addresses and telephone numbers of at least three references; and three to five key publications. Salary will be determined by qualifications and experience. Starting date for this position will be **July 1, 1991.** The closing date for applications is **March 1, 1991.**

In accordance with Canadian immigration requirements, priority is given to Canadian citizens and permanent residents of Canada. The University of British Columbia is committed to the Federal Government's employment equity program, and encourages applications from all qualified individuals.